Title: Personal S mantic Taxonomy-Based Search Agent

Inventor: Kerschberg et al. Docket No.: GMU-03-001U

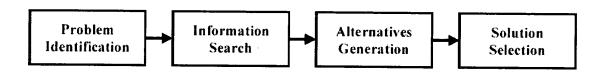


FIG. 1

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Docket No.: GMU-03-001U



FIG. 2

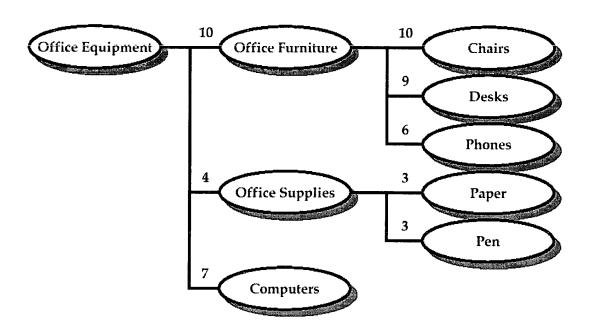


FIG. 3

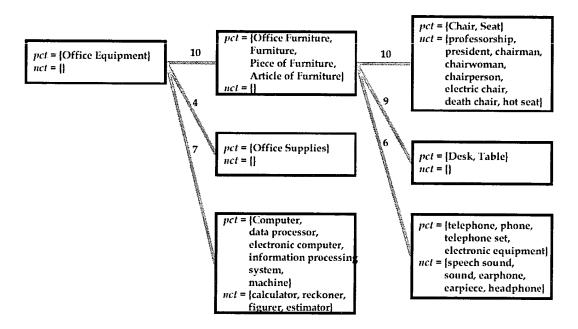


FIG. 4



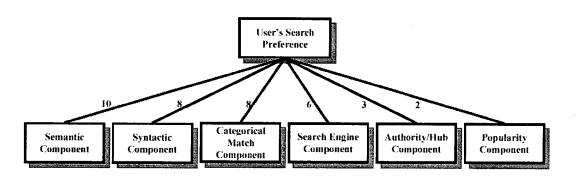


FIG. 5



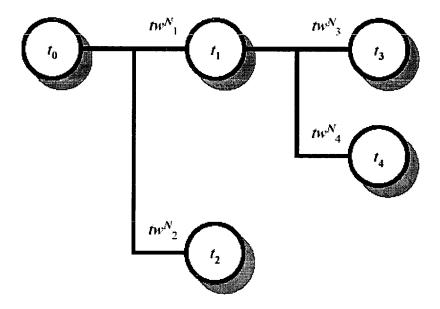


FIG. 6



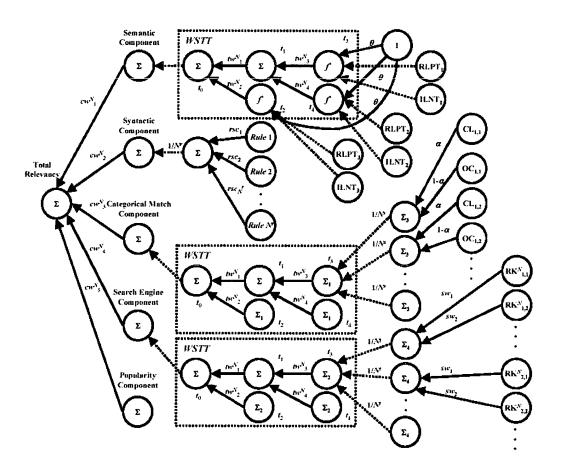


FIG. 7

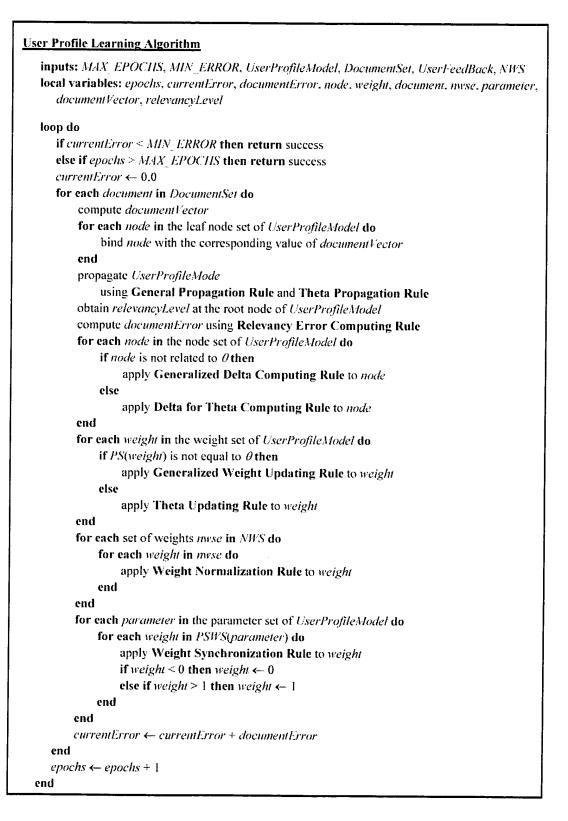


FIG. 8

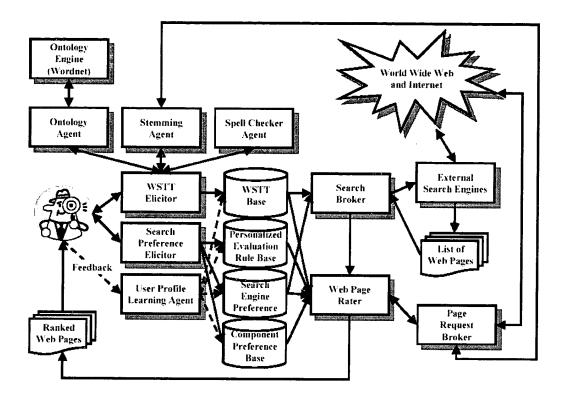


FIG. 9



WSTT Elicitor	×
P 🗂 office equipment(10)	
<b>়</b> ⊡ office furniture(10)	Add
chairs(10)	
desks(9)	Edit
phones(6)	
P ☐ office supplies(4)	Remove
pen(3)	Properties
L Computers(7)	Toperus
	Update 🗽
	Cancel

FIG. 10



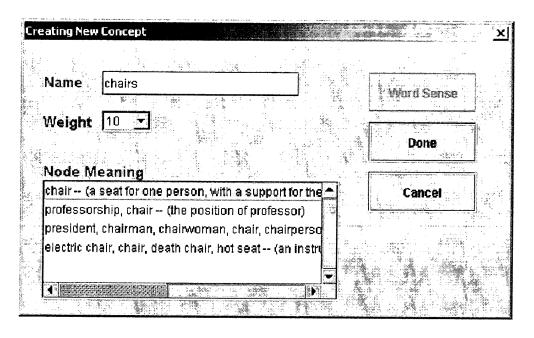


FIG. 11



User's Search Preference		• 4.7		X
Search for information on the and Search Engine Preference		omponent va	lues	, .
Component Values Search	Engine Preferer	nce Advance	d Rule Conten	<u>a</u>
Semantic Component		10		
Syntactic Component		8	J	
Categorical Match Co	mponent	8		
Search Engine Comp	onent	6		
Popularity Componen		2		
	OK	Cance		

FIG. 12



Title: Personal Semantic Taxonomy-Based Search Agent Inventor: Kerschberg et al. Docket No.: GMU-03-001U

<b>webSifte</b>	r Search	Engine	The second secon					indigent in the		l xl
Search Le	arn <u>H</u> e	:lp	. 12.7				Diddillillater (i.e	z.,337-4	•	فيتسيند ا
Businessman Problem  P Goffice equipment(10)  Chair(10) Gesk(9) Gesk(9) Gesk(9) Gesk(9) Gest(9) Gest(9										
Evaluation	Rank	Title					V.S./237727777		1071,000,000	22.0
Relevant			http://www.officesuppliessuperstore.com/	5emanuc 0.286			Search E			ž.
Don't Know			http://www.arwebb.com/	0.241	1		0.034	0	0.325	
Don't Know			http://www.lockdowncomputer.com/	0.241			0.034 0.017	0	0.312	#
Don't Know			http://www.adminsystems.co.uk/	0.2			0.017	0	0.3	
Don't Know			http://www.all-makes.com/	0.2	1		0.027	0	0.299 0.297	
Don't Know			http://www.discount-office-equipment.com/	0.2	1	٥	0.017	0		
Don't Know			http://www.ksoffice.com.au/	0.2	1	0	0.017		0.297	
Don't Know			http://qoa.asiaep.com/	0.2	4	0	0.015	0	0.297 0.297	
Don't Know			http://www.technology-leasing.co.uk/	0.2	1	0	0.013	0	0.297	
Don't Know			http://www.owensborooffice.com/	0.2	1	0	0.013	0	0.296 0.296	
Don't Know			http://www.finance-equipment.com/	0.2	1	0	0.013	0	0.296	2.4 4.4
Don't Know			http://www.belloffice.com	0.2	1	0	0.013	0	0.296	3
Don't Know			http://www.af-net.com/	0.2	1	0	0.012	0	0.296	
Don't Know			http://www.obminc.com/	0.2	1	0	0.012	0	0.296	ž.
Don't Know			http://adminsystems.co.uk/	0.2	1	0	0.01	0	0.296	
Don't Know			http://www.symquest.com/	0.2	1	0	0.008	0	0.296	
Irrelevant			http://www.ghonline.net/	0.2	1	0	0.007	0	0.295	3
Don't Know			http://www.jandr.com/	0.2	1	0	0.007	0	0.295	
Don't Know			http://www.jandr.com/Templates/Informat	0.2	1	0	0.003	0	0.295	
		~~		0.2		- 0	0.003		0.283	-

FIG. 13



Title: Personal Semantic Taxonomy-Based Search Agent Inventor: Kerschberg et al. Docket No.: GMU-03-001U

Search Engines	Average Performance
WebSifter	63%
Copernic	40%
Altavista	43%
Google	40%
Yahoo	48%
Excite	43%

FIG. 14



Title: Personal Semantic Taxonomy-Based Search Agent Inventor: Kerschberg et al. Docket No.: GMU-03-001U

Rank	URL	Feedback	Relevancy
	http://www.countryseat.com	$\mathbf{Y}_{i}$	** Y * *
	http://www.infant-car-seat.com/	i N	7 N N N
	http://www.chairmaker.co.uk/	»Y	Y
4	http://www.convertible-car-seat.com/	N N	- N
	http://www.booster-car-seats.com/	N	· No.
6	http://www.booster-seats-online.com/	Don't Know	.N
7	http://www.booster-car-seat.com/	Don't Know	N N
	http://www.podiatrychair.com/	Don't Know	N
9	http://www.carolinachair.com/	Don't Know	Y
10	http://www.chairdancing.com/	Don't Know	N
11	http://www.massage-chairs-online.com/	Don't Know	N
12	http://www.panasonic-massage-	Don't Know	N
13	http://www.fairfieldchair.com/	Don't Know	Y
14	http://www.gasserchair.com/	Don't Know	Y
15	http://www.chairtech.com/	Don't Know	Y
16	http://www.snugseat.com/	Don't Know	N
17	http://www.seat.com/	Don't Know	N
18	http://www.fifthchair.org/	Don't Know	N° .
	http://www.painted-	Don't Know	No.
20	http://www.jeanmonnetprogram.org/	Don't Know	N

FIG. 15



Title: Personal Semantic Taxonomy-Based Search Agent Inventor: Kerschberg et al. Docket No.: GMU-03-001U

Rank	WAS A SECOND URLAS OF THE SECOND	» Relevancy
	http://www.fairfieldchair.com/	Y
	http://www.chairmaker.co.uk/	$oldsymbol{Y} = oldsymbol{Y}$
	http://www.carolinachair.com/	$\mathbf{Y} + \mathbf{Y}$
4	http://www.podiatrychair.com/	N
	http://www.chairdancing.com/	N
	http://www.gasserchair.com/	Y
7	http://www.chairtech.com/	* Y 🐃
8	http://www.snugseat.com/	N
9	http://www.fifthchair.org/	N
	http://www.ompchairs.com/	Y
	http://www.cyberchair.com/	Y
	http://www.massage-chairs-online.com/	N
	http://www.panasonic-massage-	N
	http://www.jeanmonnetprogram.org/	N
	http://www.leap-chair.com/	Y
	http://www.painted-	N
	http://www.zackback.com/	Y
	http://www.chair-ergonomics.com/	1 Y
	http://www.countryseat.com	: ** Y
20	http://www.infant-car-seat.com/	N

FIG. 16



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Search Term	Before Learning	After Learning	Performance
	Devoic Beaming	Ante Learning	Enhancement
chair	<b>3</b> 0%	55%	25%
paper	45%	60%	15%
pen	55%	85%	30%
rock	15%	75%	60%
phone	65%	80%	15%
Average	42%	71%	29%

FIG. 17

